Second Quarter 2000 Water Level Measurements (Chester)



Ref. No. 5331-05

June 13, 2000

Mr. Matt Augustine
Environmental Health and
Safety Engineer
GE Company - Bridgeville Glass Plant
Mayer Street
Bridgeville, Pennsylvania 15017

Dear Mr. Augustine:

Re: GE - Bridgeville

Second Quarter 2000 Water Level Measurements

As part of the present groundwater monitoring program, second quarter water level measurements were conducted at all site monitoring wells on June 9, 2000. Water levels within the groundwater collection sump and of Chartiers Creek were also measured. The attached table is a summary of these measurements and calculated elevations. The condition of each monitoring well was also noted during this activity.

If you have any questions or comments, please do not hesitate to contact me at 412-269-5824.

Sincerely,

Douglas M. Dusbiber

Senior Geologist

DMD/sw-728

Enclosure

cc/enc: Russell Schlecht, RMT

Dougles W Outte

TABLE 1

GROUNDWATER ELEVATIONS AND TOTAL WELL DEPTHS GE LIGHTING COMPANY BRIDGEVILLE PLANT

June 9, 2000

WELL IDENTIFICATION	PVC RISER ELEVATION (ft, NGVD)	DEPTH TO GROUND- WATER (ft)	GROUNDWATER ELEVATION (ft, NGVD)	MEASURED TOTAL DEPTH FROM TOP OF CASING (ft)	WELL CONDITION AND OBSERVATIONS
MW-1R	804.85	5.17	799.68	24.83	1 bolt flange stripped, water in pro-casing
MW-2	815.87	16.46	799.41	38.87	Top of PVC casing starting to chip
MW-3	803.55	6.10	797.45	22.89	Good condition, water in pro-casing
MW-4	805.87	9.97	795.90	24.82	l bolt flange stripped, silty @ bottom
MW-5	809.09	11.15	797.94	23.43	Good condition, water in pro-casing
MW-6RR	808.00	11.61	796.39	23.18	Good condition, silty @ bottom
MW-7	807.77	8.97	798.80	26.75	Bolt sheered off in flange, silty @ bottom
MW-8R	811.12	dry		10.85	1 bolt flange stripped
MW-8AR	811.22	12.26	798.96	27.85	l bolt flange stripped, silty @ bottom
MW-9R	809.50	7.62	801.88	10.52	Bolt flanges stripped, water in pro-casing
MW-10	809.02	9.84	799.18	17.03	Good condition, water in pro-casing
MW-12	808.86	11.04	797.82	16.38	Good condition, water in pro-casing, silty @ bottom
MW-12A	809.06	13.84	795.22	25.02	Water in pro-casing
MW-14	809.55	11.16	798.39	11.25	Good condition
MW-15R	810.37	10.70	799.67	31.82	Good condition
MW-16	802.59	3.24	799.35	17.90	Good condition, silty @ bottom
MW-17	803.19	3.40	799.79	15.82	1 bolt flange stripped, silty @ bottom
MW-20	800.94	6.65	794.29	16.30	Good condition, silty @ bottom
MW-21	798.39	5.04	793.35	11.33	Good condition

OTHER LANDMARKS	ELEVATION (ft, NGVD)	DEPTH TO WATER (ft)	WATER ELEVATION (ft, NGVD)
Chartiers Creek	804.86*	11.26	793.60
(benchmark on steps)			
Groundwater	806.29	16.77	789.52
Trench Sump			

^{*} Distance from benchmark to surface of Chartier's Creek.

Third Quarter – September 2000 Groundwater Monitoring Report (Chester)



Ref. No. 5331-05

October 31, 2000

Mr. Matt Augustine Environmental Health and Safety Engineer GE Bridgeville Glass Plant Mayer Street Bridgeville, PA 15017

Mr. Russell Schlecht RMT 74 Perimeter Center East Suite 7400 Atlanta, Georgia 30346

Gentlemen:

Re: Final Copy of Third Quarter—September 2000 Groundwater Monitoring Report GE Bridgeville Glass Plant, Bridgeville, Pennsylvania

Enclosed, please find a final copy of the Third Quarter—September 2000 Groundwater Monitoring Report for the GE Bridgeville Glass Plant.

If you have any questions or comments, please do not hesitate to contact me at (412) 269-5824 or e-mail at dusbiberd@usfilter.com.

Dough W. Cushite

Douglas M. Dusbiber

Senior Geologist

DMD/sw-740

Enclosures

General Electric Company Bridgeville Glass Plant Bridgeville, Pennsylvania

Third Quarter—September 2000 Groundwater Monitoring Report

October 2000



General Electric Company Bridgeville Glass Plant Bridgeville, Pennsylvania

Third Quarter--September 2000 Groundwater Monitoring Report

October 2000

Prepared by: Douglas M. Dusbiber

Approved by: Robert W. Anderson, P.G.

Project No.: 5331-05



600 Clubhouse Drive · Pittsburgh, PA 15108 412-269-5700 · Fax 412-269-5749

THIRD QUARTER—SEPTEMBER 2000 GROUNDWATER MONITORING REPORT TABLE OF CONTENTS

Page No. Introduction......1 Field Methodologies1 2.0 Presampling Activities......1 2.1 2.2.1 Groundwater Sampling Equipment......2 2.2.2 2.3 Field Observations and Events......5 Exceptions to the Project QAPP and Corrective Actions......6 Quality Control Requirements6

TABLES

- Table 1 Site Monitoring Program
- Table 2 List of Groundwater Monitoring Parameters
- Table 3 Groundwater Elevations and Total Well Depths

APPENDICES

- Appendix A Field Log and Equipment Log Notes
- Appendix B Monitoring Well Sampling Reports
- Appendix C Chain of Custody Documentation



BRIDGEVILLE GLASS PLANT THIRD QUARTER--SEPTEMBER 2000 GROUNDWATER MONITORING REPORT

1.0 INTRODUCTION

Chester Engineers (Chester) was retained by GE Lighting (GE) to conduct the eighth year of quarterly groundwater monitoring at its Bridgeville, Pennsylvania facility as specified in the site's Hazardous and Solid Waste Amendments (HSWA) permit. The Bridgeville Glass Plant is located north of the City of Bridgeville, Pennsylvania, in Allegheny County. The plant is bounded to the north by Mayer Street, and Wheeling and Lake Erie railroad tracks; to the south and southwest by Chartiers Creek and a Conrail railroad track; and to the east by a partially abandoned former steel mill. GE's Glass Plant contains an inactive on-site landfill that is surrounded by nineteen existing monitoring wells. The sampling event was conducted in accordance with the site's revised Quality Assurance Project Plan (QAPP) prepared by Law Engineering and Environmental Services (LAW), dated October 1995, and approved by the Environmental Protection Agency (EPA).

The project scope was further revised in March 1998 as a result of EPA and LAW discussions and written correspondence. The sampling frequency and parameter list were reduced as a result of these revisions and these modifications were initiated during the first sampling event of 1998, as described in this report. In March 1999, RMT, Inc. of Atlanta, Georgia, began providing project oversight to GE. The following sections provide detailed descriptions of sampling procedures, field methodologies, and field quality control procedures.

2.0 FIELD METHODOLOGIES

The following sections provide detailed descriptions of the field equipment, supplies, and sampling methodologies used by the Chester field sampling team during this third quarter sampling event.

2.1 Presampling Activities

During the period of September 18 through September 21, 2000, Chester was on site to conduct the third quarter groundwater monitoring program of 2000. Prior to groundwater sampling, several activities were performed by Chester:

- Locations to be sampled or measured were reviewed and identified;
- The QAPP was reviewed as it relates to sampling activities;



- Field equipment was assembled and inspected to verify that equipment was in proper working order;
- Items unique to the project were obtained and inspected to ensure project adequacy and QAPP acceptance;
- Field equipment was properly calibrated;
- Laboratory sample bottles and coolers were inspected;
- The Field Log Book and Equipment Log Book were assembled (notes from this quarterly sampling event are included in Appendix A); and,
- Sampling schedule and well sampling sequence was established.

2.2 Groundwater Sampling

As of March 1998, thirteen monitoring wells are required to be sampled on a semiannual basis. Table 2 of the HSWA permit has been reproduced incorporating recent modifications and is included herein as Table 1. The well sampling sequence was established based upon past analytical results from the existing monitoring wells. The sampling sequence in order of clean to most contaminated was as follows: MW-15R (background), MW-1R (background), MW-2, MW-3, MW-21, MW-20, MW-7, MW-16, MW-12A, MW-17, MW-6RR, MW-4 and MW-8AR. Table 2 provides the list of analytical parameters that were analyzed, their respective method numbers, and the laboratory practical quantitation limits. Table 2 has been revised to incorporate recent revisions that became effective in March 1998.

2.2.1 Groundwater Sampling Equipment

The equipment, materials and supplies used during the groundwater sampling event were as follows:

- Disposable, one use, Teflon bailers were utilized for groundwater sample acquisition.
- Solinst water level indicator, Serial #12263, Model/Part #101-250 foot, P2 probe (stainless steel probe), graduated in feet and tenths.
- Digi-Sense digital pH/mV/ORP meter, Model #5938-00, Serial #L92001916.
- pH 4 buffer Fisher #SB101-500 (expiration December 2001); pH 7 buffer Fisher #SB107-500 (expiration December 2001); pH 10 buffer- Fisher #SB115-500 (expiration December 2001).
- Cole Parmer conductivity meter, Model 1481-55, Serial #1191168.
- Conductivity calibration fluid, expiration date 6/27/01, 996 umhos/cm.



- Digi-Sense/Cole Parmer, thermocouple thermometer, NIST traceable certified to four points, Model 8528-20, Serial #K92001616, certified on September 21, 2000.
- Laboratory provided Type II DI water and millipore water from EnChem, Inc.
- Laboratory prepared, certified clean, pre-preserved, and labeled sample containers provided by EnChem, Inc.
- Corning, 1-liter, disposable polystyrene filtration units, 90-mm diameter filters, 0.45 micron pore size, with Corning #25982 PF prefilters, 90-mm diameter.
- Gast, oil-less, vacuum pump, Model #ROA-P184-AA, 115 volts, Serial #LR37697.
- New polypropylene bailer cord, ¼-inch diameter, stored prior to use in a clean plastic bag.
- Disposable latex surgical gloves.

2.2.2 Groundwater Sampling Procedures

All sampling was completed using new, individually wrapped, disposable Teflon bailers. The procedure for sampling was as follows:

- The static water levels were measured in all monitoring wells (as specified on Table 1) with a clean water-level indicator (electronic water-level indicator) on the first day of the sampling program. A water level measurement of Chartiers Creek was also obtained from a benchmark located on the steel steps/platform that is located above the creek. In addition, the water level within the groundwater monitoring trench was also measured. Table 3 provides the measured static water levels, the measured total depth of each well and the calculated groundwater elevations based upon measurements collected on September 18, 2000;
- The water-level indicator tape was decontaminated between each well using the following procedure: Alconox and distilled water wash, distilled water rinse, and paper towel dry;
- Fluid volumes were then calculated for each well casing using the following formula:

```
v = 0.041 \text{ hd}^2
where h = \text{feet of static water in casing}
d = \text{inside diameter of well in inches};
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- Initial field measurements were obtained for pH, specific conductivity and temperature. A minimum of three well volumes of water was then removed;
- Each volume of water removed from the well was measured for pH, specific conductivity, and temperature;
- The field parameters of pH, specific conductivity, and temperature were determined from a separate aliquot after the portable field instruments had been properly decontaminated and calibrated. A duplicate reading was taken on the initial field measurements.
- If the well had a low recharge rate and three volumes of water could not be removed, the well was purged until dry, and the low recharge rate was noted;
- The instruments were calibrated at the beginning and end of each
 day (when used) and when instrument readings would not stabilize.
 In addition, a calibration check was conducted at midday (or
 following the third well purge location) to ensure field instrument
 drift had not occurred (calibration measurements were recorded in
 the Equipment Log Book);
- Samples were collected 18 to 22 hours after purging was completed or the well purged to dryness;
- Samples were collected for the listed parameters in the following order as per Pennsylvania Department of Environmental Protection (PADEP) modifications;

```
total metals
dissolved metals
pH
```

- The certified clean sample containers needing preservation were prepreserved at EnChem, Inc. prior to the sampling event. Sample containers were filled to the neck of the container to within 10 percent of capacity to avoid loss of preservative;
- Samples for dissolved metals analyses were collected in a nonpreserved bottle and filtered immediately after collection through a separate, disposable, 0.45-micron filtration unit (as described in Section 2.2.1). The filtered sample was transferred into a prepreserved bottle;
- The set samples were then checked for pH using pH strips to verify that the pH of each sample was <2;
- Bottle labels were completed in the field and sealed with clear plastic tape to avoid smearing of the label information. The type of sample (grab, composite), samplers' initials, project name and number, date



- and time of sample collection (and filtration time where applicable), and type of preservative were included on each sample bottle label;
- Matrix spike (MS) and matrix spike duplicate (MSD) samples were collected from MW-20;
- A blind duplicate sample was collected from MW-2 and was designated as BRMW42;
- Sampling information was recorded within a project-dedicated Field Book and later transcribed onto Chester's standard Monitoring Well Purging Data sheets (Appendix B); and
- Samples were retained on ice (double bagged) and shipped in sealed coolers, priority overnight, at the end of each day to EnChem, Inc. in Madison, Wisconsin accompanied by the proper chain-of-custody documentation (Appendix C). A temperature blank was placed in each cooler containing groundwater samples. Two custody seals were placed on each cooler containing samples.

Purge water and excess sampling volume was contained in plastic, 30-gallon drums that were placed at each sampling location.

2.3 Composite Sampling

A new disposable Teflon bailer was used to collect a composite sample of water generated during purging activities. Composite sampling was conducted by collecting ½ of a bailer volume from each drum containing purge water and pouring the water into an empty, air dried, one-gallon container (EnChem, Inc. provided) that formerly contained Type II water. After mixing, a sample (BRDR60) for total metals, dissolved metals, and pH was collected on September 21, 2000. The sample for dissolved metals was filtered using the same procedure as that for the groundwater samples.

Upon confirmation that analytical results for the drum composite sample are below the criteria outlined in Allegheny County Sanitary Authority permit, GE discharges the purge water to the facility sanitary system.

2.4 Field Observations and Events

Observations made by the Chester field personnel and events during the third quarter of the groundwater sampling program were as follows:

• The observed water turbidity was low to moderate in monitoring wells MW-1R, MW-8AR, MW-12A, MW-15R, and MW-21 during well purging. The groundwater turbidity in monitoring wells MW-2, MW-3, MW-4, MW-6RR, MW-7, MW-16, MW-17 and MW-20 was moderate to high based upon visual examination during well purging.



- Several of the flush-mounted covers continue to have stripped or broken bolt flanges. These wells include MW-1R, MW-4, MW-7, MW-8AR, MW-8R, MW-9R, and MW-17. It is recommended that these covers should be fixed or replaced as soon as possible.
- A field audit of Chester's monitoring activities was performed by RMT on September 19, 2000. The purpose of the audit was to verify that sample collection and documentation was being performed in accordance with the project specific QAPP.

2.5 Exceptions to the Project QAPP and Corrective Actions

The most recent modifications to the sampling program that occurred in March 1998 have not been revised within the QAPP document to date but have been revised in the HSWA permit. These modifications included a reduction in sampling frequency to semiannual and a reduction in the analytical parameter list to total metals, dissolved metals, and pH.

Also, disposable Teflon bailers have been used for well purging and sample collection since the 1998 sampling events. This item is an exception to the project QAPP that has occurred during each of sampling events since that time.

3.0 QUALITY CONTROL REQUIREMENTS

The laboratory analyses included the following samples for purposes of quality control, as specified by the project QAPP:

- Analysis of one rinsate blank (BRRB30);
- Analysis of one field blank (BRFB40);
- Analysis of one filtration blank (BRMMFB50);
- Analysis of one matrix spike and one matrix spike duplicate from monitoring well MW-20 (BRMW20-MS and BRMW20-MSD) and;
- Analysis of one blind duplicate (BRMW42) collected at MW-02.

The rinsate blank, BRRB30, was collected on September 19, 2000, directly from an unused Teflon disposable bailer that was discarded after rinsate blank collection. Collection of the rinsate blank samples was conducted in a first floor conference room of the GE glass plant, where sample filtration is performed. This Teflon disposable bailer was removed from its plastic covering, its bailer top removed, and was filled with Millipore water that was then transferred into the respective sample bottles. The rinsate blank is designed to provide information on the cleanliness of the sampling equipment. This sample was analyzed for the same parameters as the groundwater samples from the monitoring wells. The dissolved metals sample was filtered following the same procedure as groundwater samples from the monitoring wells.



The field blank, BRFB40, was collected at the location of monitoring well MW-12A on September 21, 2000. The sample bottles were filled directly from the Millipore water containers provided by the laboratory to expose the water to the ambient air conditions that the sample is exposed to during sampling activities. This sample was analyzed for the same parameters as the groundwater samples from the monitoring wells. The dissolved metals sample was filtered following the same procedure as groundwater samples from the monitoring wells.

The filtration blank, BRMMFB50, was collected by filtering Millipore water through a separate, disposable, 0.45-micron filtration unit on September 19, 2000. This sample filtration was performed through a new filter unit. This sample was analyzed for dissolved metals only.

The matrix spike (MS) and matrix spike duplicate (MSD) samples, BRMW20MS and BRMW20MSD, were collected as duplicate sample volumes from monitoring well MW-20 at the time of groundwater sampling from this well (September 20, 2000). These samples were spiked by the laboratory and analyzed for the same parameters as the groundwater samples from the monitoring well.

The blind field duplicate sample, BRMW42, was collected as a duplicate sample volume from monitoring well MW-02 at the time of groundwater sampling from this well (September 19, 2000).





TABLE 1

SITE MONITORING PROGRAM(a) GE LIGHTING COMPANY BRIDGEVILLE PLANT

MONITORING WELL	FREQUENCY	PARAMETERS
Performance Monitoring Wells (wells screened in fill materials) MW-5	Quarterly	Groundwater Elevation
MW-8 (reinstalled)(b)		
MW-9 (reinstalled) (b)		
MW-10		
MW-12		
MW-14 (reinstalled)		
Alluvial Groundwater Quality	Quarterly	Groundwater Elevation
Monitoring Wells		
MW-1 (background - reinstalled)	Semi-Annual	Arsenic*
MW-3	1st/3rd Quarters	Barium*
MW-4		Cadmium*
MW-6RR (third installation)(c)		Chromium*
MW-7		Lead*
MW-8A (reinstalled) (b)		pН
MW-12A		
MW-15 (background - reinstalled)		,
MW-20		
Supplemental Groundwater Quality Monitoring Wells	Quarterly	Groundwater Elevation
MW-2	Semi-Annual	Arsenic*
MW-16	1st/3rd Quarters	Barium*
MW-17		Cadmium*
MW-21 (b)		Chromium*
		Lead*
		pН

^{*} Total and Dissolved Constituent Concentrations

⁽a) Monitoring frequency and parameter list reduced based upon EPA/LAW Environmental revisions in March 1998.

⁽b) These wells were installed prior to the third quarter sampling event of 1994.

⁽c) This well was installed prior to the third quarter sampling event of 1998.

TABLE 2

LIST OF GROUNDWATER MONITORING PARAMETERS GE LIGHTING COMPANY BRIDGEVILLE PLANT

ANALYTICAL PARAMETERS	EPA METHOD SW-846	PRACTICAL QUANTITATION LIMITS (1) (mg/l)
Arsenic*	7060	0.005
Barium*	6010	0.02
Cadmium*	6010	0.005
Chromium*	6010	0:05
Lead*	7421	0.005
pН	9040	Not Applicable

⁽¹⁾ As per Table 1.3 of the revised QAPP (see note 2 below)

Notes:

- 1) Analytical Methods for Chemical Analysis of Water and Waste, EPA 600/4-79-020, 198
- 2) Parameter list reduced based upon EPA/LAW Environmental revisions in March 1998.

^{*} Total and Dissolved

TABLE 3

GROUNDWATER ELEVATIONS AND TOTAL WELL DEPTHS GE LIGHTING COMPANY BRIDGEVILLE PLANT

September 18, 2000

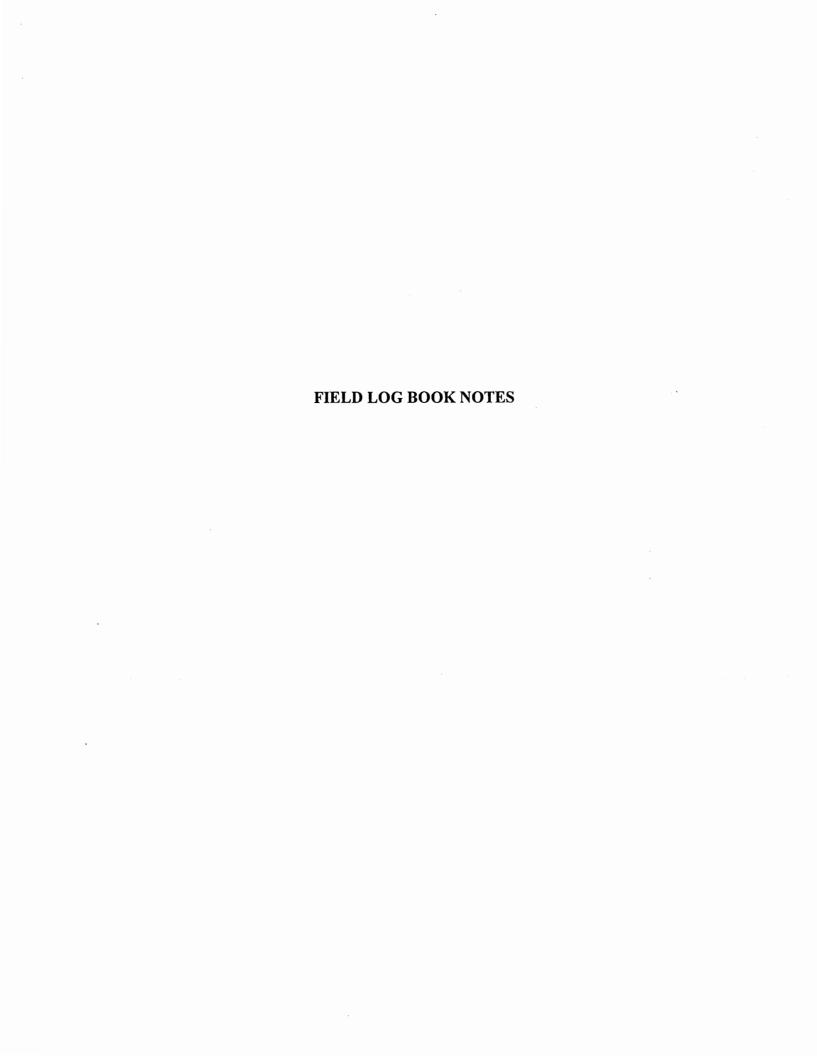
WELL IDENTIFICATION	PVC RISER ELEVATION (ft, NGVD)	DEPTH TO GROUND- WATER	GROUNDWATER ELEVATION (ft, NGVD)	MEASURED TOTAL DEPTH FROM TOP OF CASING	WELL CONDITION AND OBSERVATIONS
		(ft)		(ft)	<u>l</u>
MW-1R	804.85	5.48	799.37	24.83	water in pro-casing, (1)
MW-2	815.87	16.79	799.08	38.88	Top of PVC casing starting to chip
MW-3	803.55	6.44	797.11	22.89	water in pro-casing
MW-4	805.87	10.15	795.72	24.71	water in pro-casing, silty @ well bottom, (1)
MW-5	809.09	11.46	797.63	23.44	water in pro-casing
MW-6RR	808.00	11.83	796.17	23.00	water in pro-casing, very silty @ well bottom
MW-7	807.77	9.57	798.20	26.73	(1)
MW-8R	811.12	dry		10.85	water in pro-casing, (1)
MW-8AR	811.22	12.51	798.71	25.95	water in pro-casing, silty @ well bottom, (1)
MW-9R	809.50	7.92	801.58	10.51	water in pro-casing, (1)
MW-10	809.02	9.86	799.16	17.04	water in pro-casing
MW-12	808.86	11.76	797.10	16.39	water in pro-casing, silty @ well bottom
MW-12A	809.06	13.94	795.12	25.03	water in pro-casing, silty @ well bottom
MW-14	809.55	11.12	798.43	11.26	good condition
MW-15R	810.37	11.04	799.33	31.81	silty @ well bottom
MW-16	802.59	6.45	796.14	17.91	water in pro-casing, very silty @ well bottom
MW-17	803.19	3.55	799.64	15.91	water in pro-casing, silty @ well bottom, (1)
MW-20	800.94	6.56	794.38	16.26	silty @ well bottom
MW-21	798.39	4.30	794.09	11.33	mud on standpipe, well was likely submerged at some earlier time

OTHER LANDMARKS	ELEVATION (ft, NGVD)	DEPTH TO WATER (ft)	WATER ELEVATION (ft, NGVD)
Chartiers Creek (benchmark on steps)	804.86*	11.12	793.74
Groundwater Trench Sump	806.29	16.80	789.49

^{*} Distance from benchmark to surface of Chartier's Creek.

⁽¹⁾ Flush-mounted cover has stripped or broken bolt

APPENDIX A FIELD LOG AND EQUIPMENT LOG NOTES



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GE Broly 1/2 9-19-02 49 Rung 1/2 9-19-02 TO 16-26 Lung 1/2 9-55-6	3 Vol = 16 X 3 - 48	In: 7 6.67 [27 500 (our foren): 5 6.7 (17 326.9 mul foren): 5 6.96 [1.7 326.9 mul foren): 5 26.8 mul foreny: 3 201. 6.89 [1.8 26.2 ""	5 ta. 1 1445	
48 GE Bridgewill 9.19-00 funge HW-21. 7.13	$ w(z) = 0.04(x) d^{2}$ $ z = 0.04(x) 7.13(2)^{2}$ $ z = 2.4 4.4 5.4 $	Init (6.63 1.8 ms 169 clear 2 6.70 1.8 17.2 ", 3 ms 6.68 1.8 15.7 mal bran 3 ms 6.65 1.8 15.6 ",	start: 1415 End: 1425 well day 20 20 ls	RPDsoh

6E Brokes 14 9-19-60 June 1916-16		70.04	Dritt 6.00 /4 194 Just 90lan	1 vol. 6.06 1.4 21.5 Tubed " 2 vol. 6 15 1-5 20.5 Tubed may 3 vol. 6.23 1.5 20.1 Tech. of selling	54-+ 1550 End 1615-	
09-61-60	12 6 75 12 20 12 2	3 m/ - 2.9 x 3 = 87 90/s	Int (6.37 1.5 16.4 Clared 1	6.83 1.5 16.4	5/24: 15-26 End: 15-47	

क्य**न्त्र** न

Cleich Personnel Boug Dusb Le 2 Pan Grade Soors hos Avorant an wish Soors hos	Sarpled Mw-3 har Dissilvel Maks a & (BRMW03).		Giller DOBSB
52 GE Bridgeril 9-19-00 Puray HW-124 D = 25.03 WL = 13.94	1 vo 1 = 0.041 x hdr = 0.041 x 1/09 (2)2 3 vo 1 = 1.8 94 (5 4) 4/5	2 U.S. 6.64 1.3 17.9 Clar of Solids 30.14 17.6 Clar of Solids 3.05 6.64 1.3 17.4 Clar of Solids 3.05 6.64 1.3 17.4 Clar of Cla	End: 1638 Oct 2.4 1300 475

STATE OF THE PARTY OF THE PARTY

Partie cook and completed coc Ruchard In and to feelen Samples MW-16 for T. Mehal. O.sselved Mehls, and Samples HW-12A to T. Start 1615 EN: 1017 Filtred sumple 20 1023 10 H (BRHWILL) Start 1000 End 1002 Filters rangel is 1005 GE Broduilly 9-20-00 (BR. MWIZA BR MW 20 HSD W D928 Also collected MS & MSD Samples for Mes 20. Sander HW-> for 4 metal. D. Huth, and pit (BRHWOR) 54 GE birdyente 920-00 Sample HW-26 for BIRMUJOHS JOPAL BRIMON SO 0124 Start 0942 Shut: 01/2 5160 BRAWS NSD BRMW SO MS BRHW 23 Filher The second Filhad F. Par

4E Bridger 14 420-00 55 Pury Hw. 6RR TO 23.00 W. 11.83	3 w = 1.8 x 3 = 5.4 gale Int (6.47) 5 16.2 Sight Brun	1 46 15 16.2 Tub) 18,30 40.0 5 Jub) 18,30 40.0 5 Jub) 18,30 40.0 5 Jub) 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	7.50
52 GE Britank 9-20-00 Ruy Mw. 17 WY 70 15-91 WY 3555 12.36	20041 x 12.36 (2)2 200 guls 6 guls 200 x 3 = 6 guls	Init 1 6.30 15ms 18.0°C low luler 2 6.38 1,5ms 18.1°C " 1 161 6.51 1,6ms 20 8°C may 16 rows; 3 vol. 6.56 7,6 30.8 " 3 vol. 655 1,6 2.0.8 "	1127 Lund 1130-1200

GE Bridgerill 9-20 00 59	Aug WW-842 1 W. = 5.95 25.95 2 we 12.51 3 we = 2.2 x 3 = 6.6 1 Wol = 49 15 18.9 (2) 18.9 2 Wol 6 46 16 17.9 2 Wol 6 47
58 GE Bridge, 1/2 9-76 00	Pure 2421 1015 1015 1015 1015 1015 2011 2011 1015 3016 2011 1016 1

* \$ 1, 1 h

Che Bridgewild 3-31-00 61 Same Mary Mary Mary 1850 61 18844054) 1010 1550 1010 1010	- Sange WW 342 to 1 whish (SE MW 65AR) (SE	
Classe levening 1-31-00 Classe levening Day Ausb. Le Arme on 5: Le 0900 ha. Levene i clark, 505 windy Sand HW-12 Le T. Meth. Diss Methol, and pt (Barrer 17)	5th 1. 0925 5h 1. 0925 5h 2. 0934 Tiple & 0934 Sangle RED. And At Lebels Sangle RED. And At Lebels Sangle RED. And At Lebels Sangle 0952 End 0952 End 0952	

Mary Mary Mary

GE Broduy/6 9-21.00 letur for and conditions of sall feder to Beech for land F1162 0 1144 disposable builter. To of a Saile hill of work was collect how are du.

The water was the coursest
in an empty, day, Hillpoor stat . 1120 Fed: 1135 Collect Congest Sangle of drummed perge week. (BRDRGC). I drum my GE Endyall 9-21-02 supplied by the last. phones yes and wat was the x Filed a 1112 Start: 1110 stayed aroun

64 at Bridgent 9-22-on Received Control that Sand worked ships woved when Concern. EQUIPMENT LOG BOOK NOTES

6E Bradewill 9-18-00 31	3rd Or. Sourchy Event	50/mot Water Court Make	- pt Neel - Cole lanes Nodel 5938-00, Se #	24 Steels: 4 Fischer Sc. Exp. 16.	., , , , , , , , , , , , , , , , , , ,	-5c New - Cole Parmer	Se # 1/9/168 N15/570 - 1000 Muchos	6/27	tong to the	1 4 9 000 16	(e-f. exp. on 8(21/0)	
36 GE Brishen V. 6-9-00	Dut quale was lend	-50/115f wat 1ems										

							ğ			
		2,9000	Maria S							
		1	3	5 / 5	,		2 3	<u> </u>	23.9%	
.60		22.2	222	0/7/	da		25.2	-	7 5 5 5	
9-18-00	3	30,	15 2		Juck	no	3	30,	3.00	
	19/12	18.7	2, 3	572	27	Chill Chill	11.7	7	3, 272	
maye	7	of to	nthe t do	43	7000/	Jan	Ser Ser	3	1 2 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-
B	2,4x	200	4.0 la	2 0	3 2 2 2 2	18 7	Just of	Just Just	teres La	
5	y o	1		2000		17 c	1 3:	7 3	School	
- m				6	,				64	

33	7				2
•	ort of	4120A-		7.65	esjust the
3.00	an dismet		the my	6.98 2 389 2	
6-19	200	6AST 0,1-455 pamp, Malel P184AA, 115-4			2 4 3
141/4	222	1 0 0 X	32	1.0 butle	Sc Nutu STD.
GE Bragues 1/4	- 1 C 90 mm cellubur ai disposable	645 P/8	Clar Inist	adjust Tun come	996 14 120 1/21
99		Y		adru	2 9 9 9

34 GE Bradunil 9-19-00

24 Calledon

20 bull : 23.3° adjust Text.

20 bull : 23.3° adjust Text.

20 bull : 23.3° adjust Text.

20 bull : 700 bull 10.3

20 bull : 700 bull 10.3

20 bull : 700 a 310° C

20 bull : 700° C

20 bull :

				,	, v , , ,			
r S		70%		47	/.O.		d, lust	2 2 2
9-0		Li.	24,25 bull cale 3.98, adjust	Sc Nute 22.5°C adjust bount	1:1 ms adjust down to	7.0 but well well, 27.6.6	454 y + 7.0	Med 175°C, Adjust + to 22 4°C 99 C, unhac 570: Year 1, 60 m 5
GE Bridge U. 16 9-20-6.	Initial Calibration	4	3. 5.	4/45	2 (1)	12 M	1 3	EE
77.	1,62	22	1 3	4	145/	3	200	The state of the s
Le	3		18	10/6	a d	7	2 2 3	7,
\mathcal{E}_{z}	9 14	12	4 1/2	22.	2 2	In the	4 3 7	37.5
2	In:	20 bull	atust	7 2 2))	PH Met. 7.0 balle.	6.83. Adju	Sic Medi 125 996 mh
			2 2	N/5 ,	1 12		, , , ,	W - 3
1		1						

APPENDIX B MONITORING WELL SAMPLING REPORTS



	NEERS	MONITO	RING WELL	SAMPLING	REPORT		
Project Name:				Well Number		MW-1R	
Project Number				Date Collecte		9/19/00	715-
Location: N			uilding	Time Collecte		0925	
Sampling Tea				THING CONCOR	79:	0020	
WELL INFOR		1. LICKOT / D	. Dusbibei				
Water Level N		nt:	5.48	Total Depth	24.83 L	inear Feet:	19.35
Was Well Loc			Locked				
			Protective Met	al Casing			
Lenath of Stic	k-up to Sur	vev Point:	Flush-mounte	d			***************************************
Condition of V	Vell Collar:	Good					
Weather Cond	litions:	clear, 70s					
Comments (or	dors, noise:	s, conditions	around well, c	ngoing activiti	es, foreign o	bjects in we	ell, etc.)
PURGE INFO	RMATION						
Sample Identi				Date Purged	:	9/18/00	
Start Time:	1450			Static Water			5.48
One Purge Vo		3.2	gal	Total Purge \			9.6
Total Purge T		20 minute	341	o.u. i uigo (3.0
Initial Purge				Third Purge	Volume		
pH	SC	T	color/turbidity	pH	SC	T	color/turbidity
Pii	ms	°C	Solontaiblaity	Pil	ms	°C	Soloritarblatty
6.41	0.80	18.1	Low	6.27	0.80		Clear
6.41	0.80		Yellow	J			0.00.
First Purge V				Fourth Purg			
pН	SC	T	color/turbidity	pН	SC	T	color/turbidity
- 0.00	ms	° C	•=	ļ			
6.29	0.80	16.4					
			Yellow Orange				
				-			
Second Purg	e Volume		<u> </u>				
рН		T	color/turbidity	pН	SC	Т	color/turbidity
	ms	°C	,				
6.26	0.79	16.4	low				
			clear				
\(\frac{1}{2} \rightarrow = \frac{1}{2} \rig					. Total	- 6 h - 441	2
2-1,000 ml pl			zes and numb	er of Dottles)	: lotal no. (- פווזסמ זע	3
		03					
1-250 ml plas EQUIPMENT		TION					
FAOIL ME14!		ent Name		1	Equipment N	lumber/Mo	101
pH meter Cole		CIII INAIIIE		L92001916/		TOTTION OF THE	<u> </u>
SC meter Col				1191168/14			
	e raimei			8528-20	01-00		
Temp meter Water Level n	notor Colina			101-250/12	263		
			ovlone sord	101-250/12/	203		
Teflon disposa	able baller	and polypro	bytene cora	1			
LABORATOR	Y INFOR	MATION		!			
				D . O	L - L . 0/40/00		
Analytical Lab	oratory. Er	i Chem		Date Sent to	Lab: 9/19/00)	



ENG	SINEERS						
		MONITO	RING WELL			T	
Project Name:			lle	Well Number	ri	MW-2	
Project Number	er: 🗥 💮	5331-05		Date Collec	ted:	09/19/00	
Location: E	ast of Bitu	minous Driv	е	Time Collec	ted:	1050	
Sampling Tea	m: Allia Pu	T. Licker / [OM Dusbiber				
WELL INFOR							
Water Level N				Total Depth	38.88	Linear Feet	22.09
Was Well Loc			Locked				
Was Protectio			Protective n	netal casing			
Length of Stic	k-up to Sui	vey Point:	.83'				
Condition of V	Vell Collar.		Good				
Weather Cond	litions:	40s					
			around well, o	ongoing activ	ities, foreign	objects in w	ell, etc.) 📗
Riser Cracked	l @ surface	€.					
SAMPLE INF	OPMATIO	NI .			Date Purgeo		09/18/00
Sample Identi					Total Purge	Time:	30 min
Static Water L			16.79		One Purge	/olume:	3.5 nallone
Purge Fourier	ent:	Teflon hail	er, polypro. cor			rojuitio.	J.J galions
Total Purge V	olume.	10 8 gallon	Start Time:	1540	neters		
Initial Purge		10.0 gallott	Otalt time.	Third Purge	e Volume		
pH	SC	T	color/turbidity	pH	sc	T	color/turbidity
, pii	ms	· c	coloritarbiaity	Pii	ms	°C	Colorranblany
6.55	0.88		clear	6.58	0.40	_	lt.brown
6.42	0.85		clear	0.00	9.10		high
0.12	0.00	10.0	o.ca.				
First Purge V				Fourth Pur			
pН	SC	T	color/turbidity	pН	SC	T	color/turbidity
	ms	° C		ļ			
6.61	0.85	16.5					
			high	ļ			
Second Purg	e Volume						L
pH	SC	T	color/turbidity	pH	SC	T	color/turbidity
pri	ms	° C	Colorrarbialty	Pi'	- 50		Colontarblatty
6.55	0.41		brownish	1			
0.00			high				
			izes and num	ber of bottle	s): Total no	. of bottles	- 6
4-1,000 plast							
2-250 ml plas							
EQUIPMENT							
		ent Name			Equipment	Number/Mod	<u>del</u>
pH meter Cole				L92001916			
SC meter Col	e Parmer			1191168/1	4 81-5 5		
Temp meter	,			8528-20	2000		
Water Level n				101-250'/1	2263		
Teflon dispos	able bailer	and polypro	pylene cord				
LABORATOR	RY INFOR	MATION	······································	ţ .		-	
Analytical Lab				Date Sent t	o Lab: 9/19/0	00	
Chain of Cust					Analysis No		
MONIMELL 9/98			, ,				



ENG	INEERS							
		MONITO	RING WELL					
Project Name:	A Desire	GE-Bridgev	ille	Well Numb	er:	MW-03		
Project Number	er:	5331-05		Date Collec	ted:	Sept 20, 2	2000	
Location: E	ast of Bitu	minous Driv	е	Time Collec	cted:	0815		
Sampling Tear	m:	T. Licker / I	OM Dusbiber					
WELL INFOR	MATION							
Water Level M	leasureme	nt:	6.44	Total Depth	22.89	Linear Feet	16.45	
Was Well Locl	ked or Sea	iled?	Locked					
Was Protectio	n In Place	?	Protective r	netal casing				
Length of Stick	k-up to Su	rvey Point:	.83'					
Condition of V	Vell Collar:	litzak d	Good					
Weather Cond	litions:	40s	-					
Comments (or	dors, noise	s, conditions	s around well,	ongoing activ	vities, foreig	n objects in v	vell, etc.)	
Riser Cracked								
SAMPLE INFO						Volume: 🕟		
Sample Identif					Total Purg		35 mii	
Static Water L					Date Purg	ed '	09/19/00	
Purge Equipm								
Total Purge Vo		8.1 gal	Start Time:					
Initial Purge S	Sample			Third Purg	e Volume			
pН	SC	Т	color/turbidity	pН	SC	Т	color/turbidity	
	ms	° C		Well Dry	Well Dry	Well Dry	Well Dry	
6.21	1.6	17.6	clear					
6.39	1.7	17.7	yellowish					
			•					
First Purge V	olume			Fourth Pu	rge Volume)		
pН	SC	T	color/turbidity	pН	SC	Т	color/turbidity	
	ms	°C						
6.35	1.5	16.4	Brownish					
			moderate					
				<u> </u>				
Second Purg	e Volume							
pН	SC	Т	color/turbidity	pН	SC	Т	color/turbidity	
	ms	° C						
6.57	1.6	16	brownish					
			moderate					
					<u> </u>			
				<u> </u>				
			izes and num	ber of bottle	es): Total r	io. of bottles	6 - 6	
4-1,000 plasti		}						
2-250 ml plas								
EQUIPMENT								
		ent Name				t Number/Mo	del	
pH meter Cole				L9200191				
SC meter Cole	e Parmer			1191168/1	481-55			
Temp meter				8528-20				
Water Level m				101-250'/1	2263			
Teflon disposa	able bailer	and polypro	pylene cord					
LABORATOR	RY INFOR	MATION						
Analytical Lab					to Lab: 9/20			
Chain of Cust	ody No.: 5	2541		Request for Analysis No.:				



	NEERS	MONITO	RING WELL	SAMPLING	REPOR	T	
Project Name:		GE-Bridge		Well Number		MW-4	
Project Number	r		5 V III C	Date Collect		09/21/00	
		ea of Plant F	Property	Time Collect		1010	
Sampling Tear			DM Dusbiber	ante conce	<u>ou.</u>	1010	
WELL INFOR			211. 2402.201				
Water Level M		nt:	10.15	Total Depth	24 71	Linear Feet	14.56
Was Well Lock							
Was Protection				metal casing			
Length of Stick							
Condition of W	ell Collar:	Good					
Weather Cond							
Comments (od			s around well.	ongoing activi	ties, foreian	objects in w	ell. etc.)
	double bredt 20 bille bredt bredt bredt						
PURGE INFO	RMATION	J					
Sample Identif				Date Purged		9/20/00	
Start Time:	1234			Static Water	Level Befor	e Purge:	10.15
One Purge Vo	lume:	2.4 gallons	3	Total Purge	Volume:	7.2 gallons	
Total Purge Ti							
Initial Purge S	Sample			Third Purge	Volume		
pН	SC	T	color/turbidity	pН	SC	Т	color/turbidity
	ms	°C			ms	° C	
6.79	1.8	21.3	clear/	6.66	1.9	18.8	Clear
6.77	1.8	21.4	low				
First Purge V	olume			Fourth Purg	je Volume		
pН	SC	Т	color/turbidity	pН	SC	T	color/turbidity
	ms	° C					<i>'</i>
6.67	2.1	19.3	Brown				
			Moderate				
Second Purge	e Volume	,					
pH	SC	T	color/turbidity	pН	SC	Т	color/turbidity
	ms	° C					
6.71	2.0	19.3	cloudy/				
			mod	_			
	1 41	41. 4	<u> </u>	h	No. Total	- 6 - 44	
Volume of Sa			izes and num	per of pottles	s): Total no	. or potties	- 3
2-1,000 ml pla		03					
1-250ml plast		TION					
EQUIPMENT					Equipment	Number/Mo	dol
all mater Cala		ent Name		L92001916	Equipment	Number/Mo	uei
pH meter Cole				1191168/14			
SC meter Cole	raimer			8528-20	01-00		
Temp meter Water Level m	otor Coli-	ot .		101-250/12	263		
			nulono cord	101-250/12	.203		
Teflon disposa	ible baller	and polypro	pylene cora				
LABORATOR	V INFAS	MATION					
LABORATOR				Data Cant to	1 ab: 0/24/0	00	
Analytical Lab				Date Sent to			
Chain of Custo	oay Numb	er: 56/43		Request for	Analysis No		



ENG	INEERS	MONITO	RING WELL	SAMPI INC	REPORT		
Declarat Name						MANA/ CDD	
Project Name:		GE-Bridg 5331-05	jeville	Well Number: Date Collected		MW-6RR 09/21/00	
Project Number Location:			cullet ped	Time Collecte		950	
Sampling Team			er, T. Licker	Time Collecte	u. /	930	
		D. Dusbib	er, r. Licker				
Water Level Me		125	11.83	Total Depth:	23	Linear Feet	11.17
Was Well Lock				Total Deptil.	23	Lilleal Feet	11.17
Was Protection	Control of the state of the sta		yes				
Length of Stick				ad			
Condition of We			nash-mount	<u>cu</u>			
Weather Condi		60s					
Comments (od			around well or	acina activities	s foreign oh	iects in well	otc.)
Well was insta					s, loreign ob	lects in weir	C(0.)
VVCII Was ilista	ned in Aug	ust 1550 to	cplace WW-OI				
PURGE INFOR	MATION						
Sample Identifi		BRMW06F	RR	Date Purged:	9/20/00		7.1.
Start Time:	1200	Di tivi Vicoi		Static Water L		Purge:	11.83
One Purge Vol		1.8 gallon	S	Total Purge V			
Total Purge Tin		25 minut				orr gamerie	
Initial Purge S		A de la Colonia de Col		Third Purge \	Volume		
pH	SC	Т	color/turbidity	рН	SC	T	color/turbidity
	ms	° C			ms	°C	
6.47	1.5	16.2	slight	6.61	1.4	16.5	brownish/
6.46	1.5		Brown				high
First Purge Vo	lume			Fourth Purge	Volume		
pН	SC	T	color/turbidity	pН	SC	Т	color/turbidity
	ms	° C					
6.5	1.5	16.5	High				
			Brown/Yellow				
Second Purge							
pН	SC	<u> </u>	color/turbidity	pН	SC	Т	color/turbidity
	ms	°C	ļ				
6.62	1.5	16.5	brownish/				
			high				
							-
V-1	la (141	- 4		- of battles	Total	f ha#las 2	
Volume of Sar		e types, siz	es and numbe	er or bottles):	rotai no. o	r bottles - 3	
2-1,000 plastic							
1-250 ml plast EQUIPMENT I		ION					
EQUIPMENT					Equipment N	lumber/Mod	<u></u>
pH meter Cole		ent Name		L92001916/5		umberniou	<u>51</u>
SC meter Cole	rarmer			1191168/148 8528-20	11-00		
Temp meter	otos Colin -				62		
Water Level me			ulana aa-d	101-250/122	.03		
Teflon disposa	pie pailer a	na polyprop	yiene cora				
10001705	/ INFAR	IA TION					
LABORATOR				D-4- C44-	Lab. 0/04/00		
Analytical Labo				Date Sent to			
Chain of Custo	ay No.: 56	/43		Request for A	naiysis No.:		



ENGI	NEERS						
				SAMPLING			
Project Name:		GE-Bridge	eville	Well Number:		MW-7	
roject Numbe		5331-05		Date Collecte		9/20/00	
ocation:		East of E	3ldg. #15	Time Collecte	d: '	0940	
Sampling Tear	m:	T. Licker /	DM Dusbiber				
WELL INFOR							· · ·
Nater Level M				Total Depth	26.75	Linear Feet	17.78
Nas Well Loc <mark>l</mark>			Locked				
Nas Protectio				ctive metal cas	ing		
ength of Stick	k-up to Su	rvey Point:	Flush-mount				
Condition of W	/ell Collar:	EVAL VENEZ	Good, how	ever, one bolt	sheered-off		
Weather Cond	litions:	60s	10.00 April 10			on the second	and a second
Comments (or	lors, noise	s, conditions	s around well,	ongoing activiti	es, toreign	objects in w	ell, etc.)
PURGE INFO							
Sample Identif		BRMW07		Date Purged:		9 /19/00	
Start Time:	1526			Static Water L			8.97
One Purge Vo	lume:	2.90 gallor	าร	Total Purge V	olume:	8.7 gallons	
Total Purge Ti	me:	21 min					
nitial Purge S				Third Purge			
pH	SC	° C	color/turbidity	pH	SC	°C	color/turbidity
	ms	_	OI-	0.00	ms		11:
6.34	1.5		Clear	6.83	1.5	10.3	High
6.35	1.5	16.5					Yellow
				-			
First Burgs V	aluma						
First Purge V	SC	т т	color/turbidity	nU nu	SC	T	color/turbidity
pH		° C	Color/turblaity	pH	30	<u> </u>	Color/turbidity
6.65	ms 1.5	16.5	low	 			
0.00	1.5	10.5	Yellow	-			
			Tellow				
				<u> </u>			
Second Purg	a Valuma				l		L
pH	SC	Т	color/turbidity	рН	SC	T	color/turbidity
рп		·c	Color/turblaity	PIT	30	1	Colontarbialty
6.85	ms 1.5	16.4	low				
0.00	1.0	10.4	Yellow	1			
			1 GIIOW				
Volume of Sa	mple (ho	ttle types s	izes and num	ber of bottles)	: Total no	of bottles	- 3
2-1,000 plasti							
1-250 ml plas							
EQUIPMENT		TION					
		nent Name		E	Equipment I	Number/Mod	del
pH meter Cole				L92001916/5			
SC meter Cole	T1 T			1191168/148			
Temp meter	- ,	77-1-1-1		8528-20			
Water Level m	neter Solin	st		101-250/122	263		
Teflon disposa			pylene cord	10.207.22			
. Onon dispose	and ballet	and polypio	F7.00 00/4				
LABORATOR	Y INFOR	MATION					
Analytical Lab			100	Date Sent to	Lab: 9/20/0	0	
Chain of Cust				Request for A	****		
MONWELL 9/98				1	75.5 . 10		



EIVE	SINEERS						
			RING WELL				
Project Name		GE-Bridge	ville	Well Number		MW-8AR	
Project Numb		5331-05		Date Collecte		09/20/00	
	Near Loadi			Time Collecte	ed:	1035	
Sampling Tea		T. Licker,	D. Dusbiber				
WELL INFOR							
Water Level N				Total Depth	25.95	Linear Feet	13.44
Was Well Loc			sealed				
Was Protection			yes				
Length of Stic			Flush-mount	ted			
Condition of V							
Weather Con							
			around well,	ongoing activit	ies, foreign	objects in w	ell, etc.)
Water was f	oaming duri	ing purging a	and sampling				
PURGE INFO							
Sample Ident		BRMW08A	R	Date Purged		09/19/00	
Start Time:	1308			Static Water			12.51
One Purge V		2.2 gallons	S	Total Purge	√olume:	6.6 gallons	3
Total Purge T		14 minute					
Initial Purge				Third Purge			
PH	SC	T	color/turbidity	pН	SC	T	color/turbidity
	ms	° C			ms	° C	
6.42	2.1	18.1	Yellowish	6.49	1.5	17.6	brown /
6.36	2	18.4	low				Low
First Purge \				Fourth Purg			
pH	SC	<u>T</u>	color/turbidity	pН	sc	Т	color/turbidity
	ms	° C					
6.43	1.8	18.3	brownish/				
			mod.				
Second Purg							
pН	ms	° C	color/turbidity	pH	SC	Т	color/turbidity
6.46	1.6	17.9	brown/				
			Moderate				1
N - 1		41 - 4		han of hattle	\. T-4-1	of hattles	2
It.		• • •	zes and num	ner of potties	i). Total no	. Or potties	- 3
2-1,000 plas							
1-1,000 ml p		TION					
EQUIPMENT				T	Equipment!	Number/Mes	lel
00 1 - 0		ent Name		1		Number/Mod	01
SC meter Co				1191168/14			
pH meter Co	ne Parmer			L92001916/	2938-00		
Temp meter			W-17	8528-20	000		
Water Level I				101-250712	263		
Teflon dispos	sable bailer	and polypro	pylene cord				
LABORATO			17.5				
Analytical La				Date Sent to			
Chain of Cus	tody No.: 56	6743		Request for	<u>Analysis No</u>	·:	



EN	GINEERS						
	····	MONITO	RING WELL	SAMPLIN	G REPOR	T	
Project Name).	GE-Bridge	eville	Well Number	r. CLASS	MW-12A	
Project Numb	er:	5331-04			ted:	9/20/00	
Location:	West of Cyc	clops Steel E	Bldg	Time Collec		1015	
Sampling Tea			M Dusbiber				
WELL INFOR							
Water Level I				Total Depth	25.03	Linear Feet	11.09
Was Well Loo			Locked	-			
Was Protection	on In Place	? chimbinal	Yes				
Length of Stic			Flush-mount	ed			
Condition of	Well Collar:	good					
Weather Con							
Comments (c	odors, noise	s, conditions	s around well, o	ongoing activ	ities, foreign	objects in w	ell, etc.)
SAMPLE INF					One Purge \		
Sample Ident	tification:	BRMW16			Total Purge		
Static Water					Date Purgeo		09/19/00
Purge Equipr			ler, polypro. co		meters		
Total Purge \		5.4 Gal.	Start Time:	1625			
Initial Purge			,,	Third Purg			
pН	SC	Т	color/turbidity	pН	SC	T	color/turbidity
	ms	° C			ms	°C	
6.64	1.2		Clear with	6.64	1.3	17.4	Clear
6.62	1.2	17.7	red suspended				low
			solids.			-	
First Purge \							
pН	SC	T	color/turbidity	pН	SC	Τ	color/turbidity
	ms	°C					
6.53	1.4	17.6	Clear with				
			red suspended				
			solids.				
Second Purg							
pН	sc	T	color/turbidity	pН	SC	T	color/turbidity
0.50	ms	°C	Olimba				
6.56	1.4	17.4	Slight				
			Yellow				
Volume of C	omple /hc4	tla times =	izes and num	har of hattle	e). Total ra	of hottles	- 3
2-1,000 plas			izes and num	ber of bottle	s). Total no	. or bottles	- 3
1-250 ml pla		TION					
EQUIPMENT				1	Equipment	Number/Med	to!
nl motor Co		ent Name		L92001916		Nullipel/Mod	<u>101</u>
pH meter Co				1191168/1			
SC meter Co	e raimer			8528-20	101-00		
Temp meter Water Level	motor Colin	nt		101-250/1	2263		
			nylana sard	101-250/1/	2200		
Teflon dispos	sable baller	and polypro	pylene cora				
LABODATO	DV INFOR	MATION		<u> </u>			
LABORATO				Data Sant 1	o L ob: 0/20/0	10	
Analytical La					o Lab: 9/20/0		
Chain of Cus	1003 No.: 5	2541		request for	Analysis No		



	NEERS	MONITOR	RING WELL	SAMPLING	REPOR	T	
Project Name:		GE-Bridge		Well Number:			7 11000
Project Number		5331-04	- VIIIC	Date Collecte		09/19/00	
Location:	JI.	TO A STREAM OF THE PARTY OF THE	3-Story Buildi	Time Collecte		0900	
Sampling Tea	m:		DM Dusbiber	Time Concert	· ·	0000	
WELL INFOR		V. Elokol / /	DIVI DUODIDOI		CONTRACTOR OF STREET		
Water Level M		nt	11.04	Total Depth	31.81	Linear Feet	20.77
Was Well Loci			Locked				20.77
Was Protectio		CO. C.		metal casing			
Length of Stick			3.63'	<u> </u>			
Condition of W			Good				
Weather Cond		60s, clear					
			around well,	ongoing activiti	es, foreign	objects in we	ell, etc.)
slight septic o	dor during	purging					
PURGE INFO	RMATION						
Sample Identii	fication:	BRMW15R		Date Purged:		09/18/00	
Start Time:	1422			Static Water I			11.04
One Purge Vo				Total Purge V	olume:	10.2 gal	
Total Purge Ti		28 minutes	<u> </u>				
Initial Purge S				Third Purge			
pН	SC T color/turbidity pH SC						color/turbidity
	μ	° C			ms	° C	31
5.97	185	17.1	clear/	6.47	0.68	17.0	clear/
6.03	0.71	17.5	low				low
First Purge V	olumo			Fourth Purge	Volume		
pH	SC	Т	color/turbidity	pH	SC	Т	color/turbidity
Pii	ms	°C	Color/turbialty	PIT	30		Color/turbluity
6.3	0.70	17	clear /				
	0.70		low				
			1000	1			
Second Purg	e Volume					ll	
рН	SC	Τ	color/turbidity	рН	SC	Т	color/turbidity
	ms	° C					
6.36	0.71	16.8	clear /				
			low				
			zes and num	ber of bottles)	: Total no	of bottles	- 3
2-1,000 ml pla		O3					
1-250 ml plas							
EQUIPMENT				_			
		ent Name				Number/Mod	el
pH meter Cole				L92001916/5			
SC meter Cole	Parmer	494.84		1191168/148	1-55		
Temp meter	-1 0-1			8528-20			
Water Level m				101-250'/122	.03		
Teflon disposa	able baller	and polyprop	bylene cora				
LABORATOR	V INCOR	MATION					
LABORATOR				Date Cont to	l ab: 0/40/0	10	
Analytical Lab				Date Sent to			
Chain of Custo	ouy 140.:51	U14		Request for A	malysis NO	••	



ENG	IIVEERS						
			RING WELL				
Project Name	1053	GE-Bridge	eville	Well Numbe		MW-16	
Project Numb	er:	5331-05		Date Collect		9/20/00	
Location: \	Nest of Cyc	clops Steel E		Time Collec	ted:	1550	
Sampling Tea	ım:	T.Licker, D	M Dusbiber				
WELL INFOR			0.45	T. 1. 1. D. 11.	47.04		
Water Level N	/leasureme	nt:		Total Depth	17.91	Linear Feet	11.46
Was Well Loc							
Was Protection			Yes	•			
Length of Stic	k-up to Su	vey Point:	Flush-mount	ea		-	
Condition of V	veli Collar.	good					
Weather Con				Section 1 Section 1			
Comments (o	aors, noise	s, conditions	s around well, o	ongoing activ	ities, foreign	objects in w	ell, etc.)
SAMPLE INF	OPMATIO	N			One Purge	/olume:	1.9 gallons
Sample Ident					Total Purge		25 minutes
Static Water I			6.45		Date Purged		09/19/00
			ler, polypro. co				00/10/00
Total Purge V	ol:	5.7 Gal.	Start Time:	1550	meters		
nitial Purge		0.7 Oai.	Otart Time.	Third Purge	e Volume		
pH	SC	Ť	color/turbidity	Hq	SC	Т	color/turbidity
PIT	ms	°C	Colonitarbialty		ms	°C	oo.oarbiany
6.06	1.4		slight	6.23	1.5	20.1	gray/
6.03	1.4	19.5	Yellow	0.20			low
First Purge \							
pН	SC	Τ	color/turbidity	pН	SC	Τ	color/turbidity
	ms	° C					
6.06	1.4	21.5	slight				
			Yellow				
Second Purg			1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u></u>			
pН	SC	T	color/turbidity	pH	SC	T	color/turbidity
0.45	ms 1.5	° C	Madazata				
6.15	1.5	20.5	Moderate	 			
			Gray				
Volume of S	ample (hat	tle types o	izes and num	her of bottle	e). Total no	of hottles	- 3
2-1,000 plas			izes and num	o. o. boule	oj. Total IIO	. or bottles	J
1-250 ml pla							
EQUIPMENT		TION					
-4011 HE141		ent Name			Equipment	Number/Mod	del
pH meter Col		One Home		L92001916			
SC meter Co				1191168/1			
Temp meter	o i annoi			8528-20	.5. 55		
Water Level i	neter Solin	st		101-250'/12	2263		
Teflon dispos			nylene cord	101 200712			
renon dispos	anie naliel	and polypro	pylone colu				
LABORATO							
Analytical La					o Lab: 9/20/0		
01 ' (0	tody No.: 5	2541		Request for	Analysis No).:	



ENG	INEERS						
			RING WELL			T	
Project Name:	Harris City	GE-Bridge	eville	Well Number	er: 🖅 🔭	MW-17	
Project Numbe	er:	5331-05		Date Collect	ted:	9/21/00	
Location: V	Vest of Cyc	lops Steel E	Bldg	Time Collec	ted:	0925	7
Sampling Tear		T.Licker, D	M Dusbiber				
WELL INFOR							
Water Level M				Total Depth	15.91	Linear Feet	12.36
Was Well Lock							
Was Protectio			Yes				
Length of Sticl			Flush-mount	ed			
Condition of W	/ell Collar	good					
Weather Cond							
Comments (or	lors, noise	s, conditions	s around well, o	ongoing activ	rities, foreign	objects in w	ell, etc.)
SAMPLE INFO			- P. V. d. de				2.3 gallons
Sample Identil			0.55		Total Purge		
Static Water L				-1 -11 0 00	Date Pruge	1	09/20/00
Purge Equipm	ent;		er, polypro. co	ra, pH & SC	meters		
Total Purge Vo		6 Gal.	Start Time:	1115 Third Purg	a Valuma		24
Initial Purge S		т	a a la s/turbiditu	pH	SC	Т	color/turbidity
pН	SC	°C	color/turbidity	pri	ms	°C	Color/turbidity
6.36	ms 1.5	18.0	Low	6.59	1.6	_	Brown
6.38	1.5		Clear	0.59	1.0	20.0	Moderate
0.30	1.5	10.1	Cleai				Moderate
First Purge V	olume				L	L	
pH pH	SC	Т	color/turbidity	рΗ	SC	Т	color/turbidity
pri	ms	°C	Colontarbialty	F.,		•	Coloniarsialty
6.51	1.6		Moderate			-	
0.01			Brown				
		Mary Mary Mary Mary Mary Mary Mary Mary	J		<u> </u>	,	
Second Purg	e Volume		L			<u> </u>	
pH	SC	Т	color/turbidity	pН	SC	T	color/turbidity
P	ms	°C	,	,			
6.56	1.6		Moderate				
			brown				
					7.0.0		
'* SC meas	surements	suspect					
Volume of Sa	mple (bot	tle types, s	izes and num	ber of bottle	s): Total no	o. of bottles	- 3
2-1,000 plasti							
1-250 ml plas	tic						
EQUIPMENT							
		ent Name				Number/Mod	<u>del</u>
pH meter Cole				L92001916			
SC meter Cole	e Parmer			1191168/1	481-55		
Temp meter				8528-20			
Water Level m				101-250/1	2263		
Teflon disposa	able bailer	and polypro	pylene cord				
LABORATOR							
Analytical Lab					to Lab: 9/21/		
Chain of Cust	ody No.: 56	6743		Request fo	r Analysis No	D.:	



	INEERS		RING WELL	SAMPLIN	G REPOR					
Project Name:	254			Well Number: MW-20 MS, MSD						
Project Numbe				Date Collect		09/20/00				
Location: A	diacent to	and north of	Chartier's Crk			0910				
Sampling Tear				2141212						
WELL INFOR										
Water Level M		nt:	6.56	Total Depth	16.26	Linear Feet:	9.7			
Was Well Lock						•				
Was Protection				etal casing						
Length of Stick			1.70'							
Condition of W	Vell Colland	Good								
Weather Cond	litions:	60s								
Comments (od	dors, noise	s, conditions	around well, o	ngoing activit	ies, foreign o	bjects in we	II, etc.)			
Silty Bottom										
Collected MS	& MSD at 1	his well.								
PURGE INFO										
Sample Identif	fication:	BRMW20		Date Purgeo	l:	9/19/00				
Start Time:	1445			Static Water		e Purge:	6.56'			
One Purge Vo	lume:	1.6		Total Purge						
Total Purge Ti	me:	15 minute			The second secon					
Initial Purge S	Sample			Third Purge	Volume					
pН	SC	T	color/turbidity	pН	SC	Т	color/turbidity			
	ms	°C			ms	°C				
6.67	1.7	30	orange tint	6.89	1.8	26.2	orange-brown			
6.77	1.7	29.9					moderate			
First Purge V	olumo			Fourth Purg	no Volumo]			
	SC	т	oolor/turbidity		SC SC	Т	color/turbidity			
pH	ms	° C	color/turbidity	pН	30		Color/turbialty			
6.79	1.7		orange-brown/							
0.75	1.7	20.9	moderate		·					
			moderate							
Second Purg	e Volume									
pН	SC	Т	color/turbidity	рН	SC	Т	color/turbidity			
	ms	°C								
6.9	1.7	25.8								
			Moderate							
		41 4				. 6 1 - 441				
			zes and numb	er of bottles): Total no.	of pottles -	9			
6-1,000 plasti										
3-250 ml plas		TION								
EQUIPMENT				T	Cautianan	Number/Me	401			
		ent Name		1 00001010		Number/Mod	<u>iei</u>			
pH meter Cole				L92001916						
SC meter Cole	e Parmer			1191168/14	107-55		4.16			
Temp meter		1		8528-20	2000					
Water Level m				101-250'/12	2263					
Teflon disposa	able bailer	and polyprop	bylene cord				·····			
LABORATOR	Y INFOR	MATION								
Analytical Lab				Date Sent to	Lab: 9/20/0	0				
Chain of Custo				Request for Analysis No.:						
Chair of Oust	54, 110 02									



ENG	INEERS									
			RING WELL							
Project Name:		GE-Bridg	eville	Well Num	ber:	MW-21				
Project Number		5331-05		Date Colle		9/20/00				
CONTRACTOR DESIGNATION OF THE PARTY OF THE P		artier's Cree		Time Colle	ected:	0840				
Sampling Tear		T. Licker,	DM Dusbiber							
WELL INFOR										
Water Level M				Total Dep	th 11.33	Linear Feet	7.13			
Was Well Lock	A STATE OF THE PARTY OF THE PAR		Locked							
Was Protection			Protective	stainless st	eel casing					
Length of Sticl			3.0'							
Condition of W										
Weather Cond										
Comments (or	iors, noise	s, conditions	s around well,	ongoing act	tivities, foreig	n objects in w	ell, etc.)			
SAMPLE INFO						Volume:	1.2 gallons			
Sample Identif					Total Purge		10 minutes			
Static Water L					Date Purge	ed	09/19/00			
Purge Equipm			iler, polypro. co							
Total Purge Vo		3.6 gallon	Start Time:							
Initial Purge S			r	Third Pur	ge Volume					
pH					SC	T	color/turbidity			
	ms	° C		DRY	ms					
6.63	1.8		clear							
6.7	1.8	17.2								
First During V				Courth D.						
First Purge V					irge Volume					
pH	SC	° C	color/turbidity	pH	SC	T	color/turbidity			
0.00	ms 4.0			<u> </u>						
6.68	1.8	15.7	moderate							
			brown	ļ						
Second Purg	o Volumo		L							
pH	SC	T	oolor/turbidity		SC	Т	color/turbidity			
рп		°C	color/turbidity	pН			Color/turbluity			
6.65	ms 1.8		moderate							
0.03	1.0	13.0	brown							
			DIOWII	<u> </u>						
Volume of Sa	mple (hot	tle types s	izes and num	her of bott	les): Total n	o of bottles	3			
2-1,000 plasti	• •	• •	izes and num	bei oi bott	ies). Total li	o. or bottles	- 0			
1-250 ml plas										
EQUIPMENT		TION								
LGOII IIILITI		ent Name		1	Fauinment	t Number/Mod	el			
pH meter Cole		ione realitie		1 920019	16/5938-00	(TVAIIIDOI/IIIO	<u></u>			
SC meter Cole				1191168/						
Temp meter	, i aiiilei			8528-20	1701-00					
Water Level m	eter Solin	et		101-2507	12263					
Teflon disposa			onviene cord	101-2307	12200					
renon disposa	able ballers	s and polypr	opyrene cord							
LABORATOR	V INCOR	MATION		<u>!</u>						
				Data Card	to I ch. 0/00	/00				
Analytical Lab					to Lab: 9/20					
Chain of Custo	oay No.: 5	Z04 I		Request for Analysis No.:						

APPENDIX C CHAIN OF CUSTODY DOCUMENTATION

(Plane, rint Legior,, Str. Fre	ineers		_		3	À						e St., Sul	te 9		25 Science Drive		1423 N.	eet, Suite 122
Branch or Location: Vittishing L	, PA		_ E	c tQ		F	IE,	M	920	0-469-24		I 54302 300-736-2 9-8827	436	608-232-33	son, WI 53711 00 • 1-888-536-2 608-233-0502	436 7	15-392-5844	1-800-837-8238 -392-5843
Project Contact: Docy Dus Sib	ur		_ -	- /		y –	-								1		, 	
Telephone: 4/12 209-58.	ა <i>4</i>		_ (CH	AI	N C	F	CU	ST	OD	Y			5101	4		Page_/	of
Project Number: 5331-05			_	*Preservation Codes A=None B=HCL C=H2SO4 D=HN03 E=EnCore F=Methanol G=NaOH Mail Report To: Russ									Quote #					
Project Name: 65 Bridgerill	6/ass 1	plant	-		FILT	ERED?	(YES/N	0)/1	v /	Y //	v /	7	7	7		,	RMT	
Project State: PA				PR	ESERV	ATION	CODE)	/D	ZD	A	\angle	\angle	Z,		Ad			te Center
Sampled By (Print): Doug Dus bila	1-1 Tom L	icker				,	s/.		. /						/	-ast	She	7400
			7			É	" /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ /	/ /	/ ,	/ /	/ /	///	. .			A 30346
Data Package Options (please circle QC Summary Surcharge Site	-Specific QC F	Required	17		4	%	7/23							///	Company:	good	615 6	bone
EnChem Level III 10% (min sea	Yes No (If yes, indicate OC samp	ele and submi			4		\ ` }/			/ /	/	//		/ A0	dress:			
EnChem Level IV 25% (mln. \$100)	triplicate volume.)			12		11736	* / >	/ /	/ ,	/ ,	/ ,	//	/ /	Mail Invoice	e To:			
(Lab (Lab (Lab (Lab (Lab (Lab (Lab (Lab	D.	DATES	CTIONING.		<u> </u>	Y	<u>×</u> ,		\angle				MATRIX	COM	AMENTS		HAN TOTAL B	OTILES (Only)
BR MW 15R		9-19-00	0900	X	X	X	•						W	FILM	2.0905			
BR HWOIR			0425	X	X	X	4.						W	Filler	20932	***	0.000	
BR MM FB	50		0945		X			S	u	etter	hed	steet	W	Filtered	20946			
BRRR 30			1000	X	Χ	X		fo		Itals	lis	17	W	Filered	W 1003			
BR HWOZ	2		1050	X	X	X		4	d	PQL	-5			- 1	21103	WALL	为多的权	
BRHW4	2		1200	X	X	X							W	Fillered	W-12/0		學學學	
党制建立										1							ne de Ne	
									-									
ti Militari (in				1.				•								Market Co.	********	
															•	9673	****	
Appellia 1970							1,5 14.		•							A STATE OF		
Turnaround Time Requested (TAT) (circle): Std (10 Bus, Daye) Rush	TAT Surcharge		4/. 1	ufi	4	9	-19:0	te/Time	230		eived B	y:			Date/Time:		En Chem Proje	
(Rush TAT subject to approval/surcharge) Quick Turn Number:	2 day 2.0x 3 day 1.5x	Relinquis	hed By:				Da	te/Time	:		eived B	y:			Date/Time:		Sample Receip	e appp
Date Needed: Transmit Rush Results by (circle):	4 day 1.4x 5 day 1.3x	Relinquis	shed By:				Da	te/Time	:	Rec	eived B	y:			Date/Time:		Sample Receip (Wet/Metals)	中的 pH 溶解解解解放物物
Phone Fax Phone #: Fax #:	Matrix Codes W=Water S=Soil	Relinquis	shed By:				Da	te/Time	:	Rec	eived B	y:			Date/Time		Custody Seal	STATE OF THE STATE
Samples on HOLD are subject to special pricing and release of liability	A=Air C=Charcoal B=Biota SI=Sludge	Relinquis	shed By:								eived B			Date/Time			Married Branch and Company of the Co	

			_													
(Please Print Legil Company Name: 1541. Engl				1		•			П	1241	Bellevue	St. Sul	te 9	525 Science Drive	. С	1423 . 4 Street, Suite 122
			- `_		N. 1		~~~	~ ~		Green	Bay, WI	54302		Madison, WI 53711		Superior, WI 54880
Branch or Location: P. Hsly	, P/t ·	·	_ E	S (A)		G F	IE	M INC.	920		36 • 1-8 920-469		2436	608-232-3300 • 1-888-536-2 FAX: 608-233-0502	436	715-392-5844 • 1-800-837-8238 FAX 715-392-5843
Project Contact: Doug Dusbit		<u> </u>	_ _	- 1		y –			-							
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Fourth Quarter 2000 Water Level Measurements (Chester)



Ref. No. 5331-05

December 28, 2000

Mr. Matt Augustine
Environmental Health and
Safety Engineer
GE Company - Bridgeville Glass Plant
Mayer Street
Bridgeville, Pennsylvania 15017

Dear Mr. Augustine:

Re: GE - Bridgeville

Fourth Quarter 2000 Water Level Measurements

As part of the present groundwater monitoring program, fourth quarter water level measurements were conducted at all site monitoring wells on December 28, 2000. Water levels within the groundwater collection sump and of Chartiers Creek were also measured. The attached table is a summary of these measurements and calculated elevations. The condition of each monitoring well was also noted during this activity.

If you have any questions or comments, please do not hesitate to contact me at 412-269-5824.

Sincerely,

Douglas M. Dusbiber

Senior Geologist

DMD/jdt/sw-761

Enclosure

cc/enc: Russell Schlecht, RMT

TABLE 1

GROUNDWATER ELEVATIONS AND TOTAL WELL DEPTHS GE LIGHTING COMPANY BRIDGEVILLE PLANT

December 27, 2000

WELL	PVC RISER	DEPTH TO	GROUNDWATER	MEASURED	WELL CONDITION
IDENTIFICATION	ELEVATION	GROUND-	ELEVATION	TOTAL DEPTH	AND OBSERVATIONS
	(ft, NGVD)	WATER	(ft, NGVD)	FROM TOP OF CASING	
		(ft)		(ft)	
MW-1R	804.85	5.34	799.51	24.83	water in pro-casing, (1)
MW-2	815.87	16.63	799.24	38.91	Top of PVC casing starting to chip
MW-3	803.55	6.20	797.35	22.90	water in pro-casing
MW-4	805.87	9.88	795.99	24.86	water in pro-casing, silty @ well bottom, (1)
MW-5	809.09	11.25	797.84	23.45	water in pro-casing
MW-6RR	808.00	11.58	796.42	23.12	water in pro-casing, very silty @ well bottom
MW-7	807.77	9.37	798.40	26.75	(1)
MW-8R	811.12	dry		10.86	water in pro-casing, (1)
MW-8AR	811.22	12.26	798.96	26.03	water in pro-casing, silty @ well bottom, (1)
MW-9R	809.50	7.58	801.92	10.55	water in pro-casing, (1)
MW-10	809.02	9.86	799.16	17.04	water in pro-casing
MW-12	808.86	11.63	797.23	16.40	water in pro-casing, silty @ well bottom
MW-12A	809.06	13.82	795.24	25.05	water in pro-casing, silty @ well bottom
MW-14	809.55	dry		11.27	good condition
MW-15R	810.37	10.87	799.50	31.82	silty @ well bottom
MW-16	802.59	3.42	799.17	18.00	water in pro-casing, silty @ well bottom
MW-17	803.19	3.49	799.70	15.93	water in pro-casing, silty @ well bottom, (1)
MW-20	800.94	6.46	794.48	16,31	silty @ well bottom, cracked pad around well needs caulked
MW-21	798.39	4.63	793.76	11.35	good condition

OTHER LANDMARKS	ELEVATION (ft, NGVD)	DEPTH TO WATER (ft)	WATER ELEVATION (ft, NGVD)
Chartiers Creek (benchmark on steps)	804.86*	11.02	793.84
Groundwater Trench Sump	806.29	15.88	790.41

^{*} Distance from benchmark to surface of Chartier's Creek.

⁽¹⁾ Flush-mounted cover has stripped, missing, or broken bolt, or broken bolt flange